

## PROJECT 10073 RECORD CARD

1. DATE DR July 1957	2. LOCATION Shiloh, Ohio		12. CONCLUSIONS <input type="checkbox"/> Was Balloon <input type="checkbox"/> Probably Balloon <input type="checkbox"/> Possibly Balloon
3. DATE-TIME GROUP Local _____ GMT - - - -	4. TYPE OF OBSERVATION <input type="checkbox"/> Ground-Visual <input type="checkbox"/> Ground-Radar <input type="checkbox"/> Air-Visual <input type="checkbox"/> Air-Intercept Radar		<input type="checkbox"/> Was Aircraft <input type="checkbox"/> Probably Aircraft <input type="checkbox"/> Possibly Aircraft
5. PHOTOS <input type="checkbox"/> Yes Physical <input checked="" type="checkbox"/> No Specimen	6. SOURCE Civilian		<input type="checkbox"/> Was Astronomical <input type="checkbox"/> Probably Astronomical <input type="checkbox"/> Possibly Astronomical
7. LENGTH OF OBSERVATION - - -	8. NUMBER OF OBJECTS one	9. COURSE found on ground	<input checked="" type="checkbox"/> Other <u>Stoney meteorite</u> <input type="checkbox"/> Insufficient Data for Evaluation <input type="checkbox"/> Unknown
10. BRIEF SUMMARY OF SIGHTING Physical specimen sent to ATIC for analysis.		11. COMMENTS Physical analysis indicated that the object was a stoney type meteorite over 100 years old.	



~~CONFIDENTIAL~~

SUBJECT: Examination of "Stony Meteorite" (Continued)

TO: AFCIN-4E2                      TO: AFCIN-4B4                      DATE: 30 July 57                      COMMENT NR 2  
      (C. A. Naugle)                      (D. T. Williams)  
Through: AFCIN-4B3

Attached is an informal report presenting the results of an examination of a large stone, as requested in Comment Nr 1. The examination was conducted by Drs. D. T. Williams and Charles B. Sclar, a mineralogist on our staff.

It is concluded that the stone in question is not a meteorite.

The attached report is considered to satisfy the requirements of Comment Nr 1. The stone is being returned under separate cover.

*Howard C. Cross*

Howard C. Cross

HCC:tr  
Enclosure (4)

~~CONFIDENTIAL~~



~~CONFIDENTIAL~~

If more information on the composition of the stone is desired, a mineralogical study could be made based on a small sample broken from a side of the stone. However, it is believed that no further investigation is necessary to conclude that the stone is not a meteorite.

## Institute Studies Meteorites For Missile Data

2- The remains of unguided missiles which have been bombarding earth from outer space since the beginning of time are being studied by technicians developing better guided missiles.

2- At the Battelle Institute in Columbus, working for the Wright Air Development Center, technicians are examining meteorites to see how they survived their descent to earth.

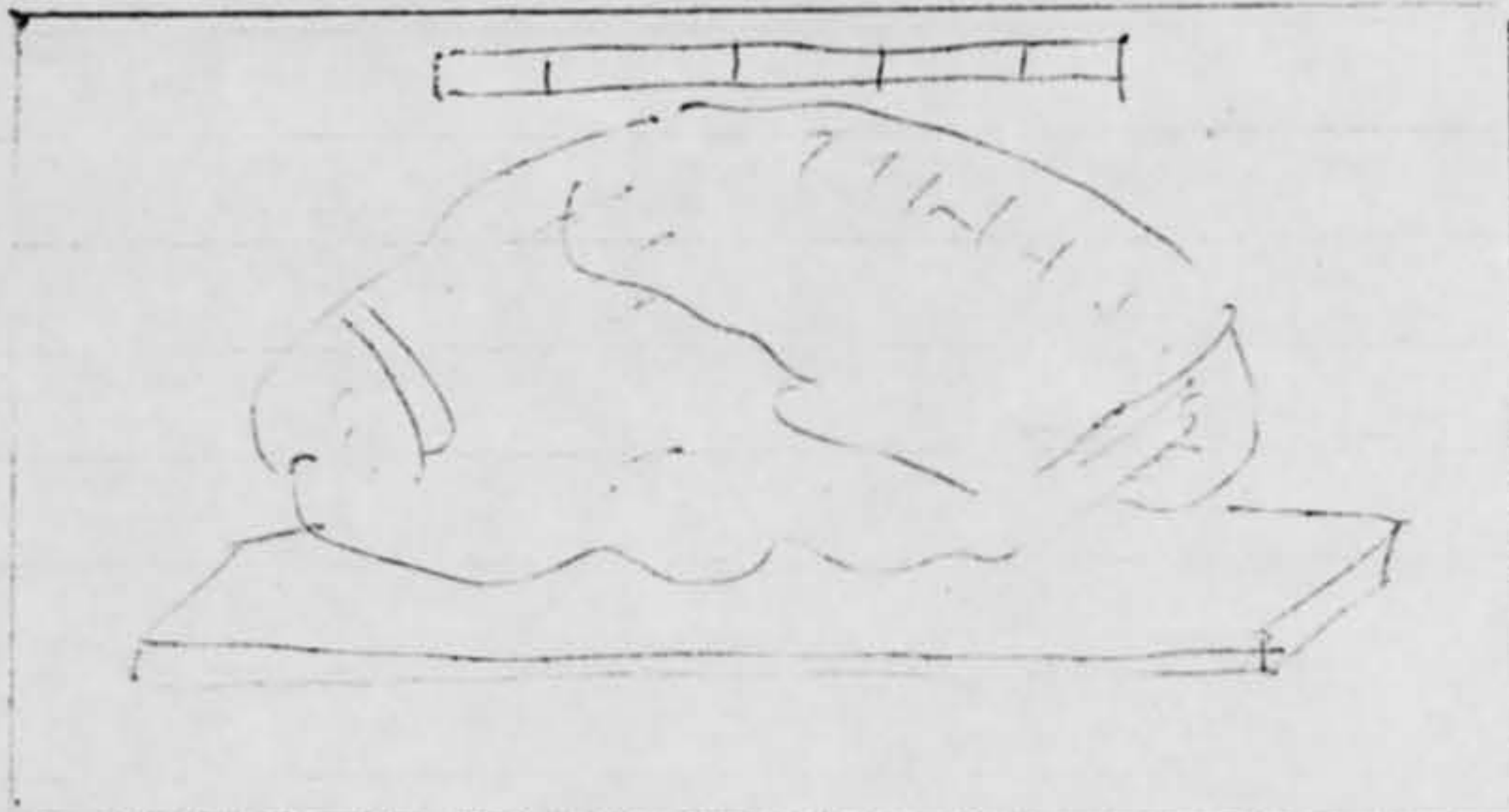
3- Guided missiles, traveling at high speeds in the friction-producing atmosphere, are subject to tremendous heat, and metallic alloys to withstand these temperatures have to be developed.

4- By subjecting the nickel and iron structures of the meteorites to microscopic analysis, they hope to be able to learn how the meteorites heated.

5- Battelle scientists are getting meteorites from museums and private collections.



Note



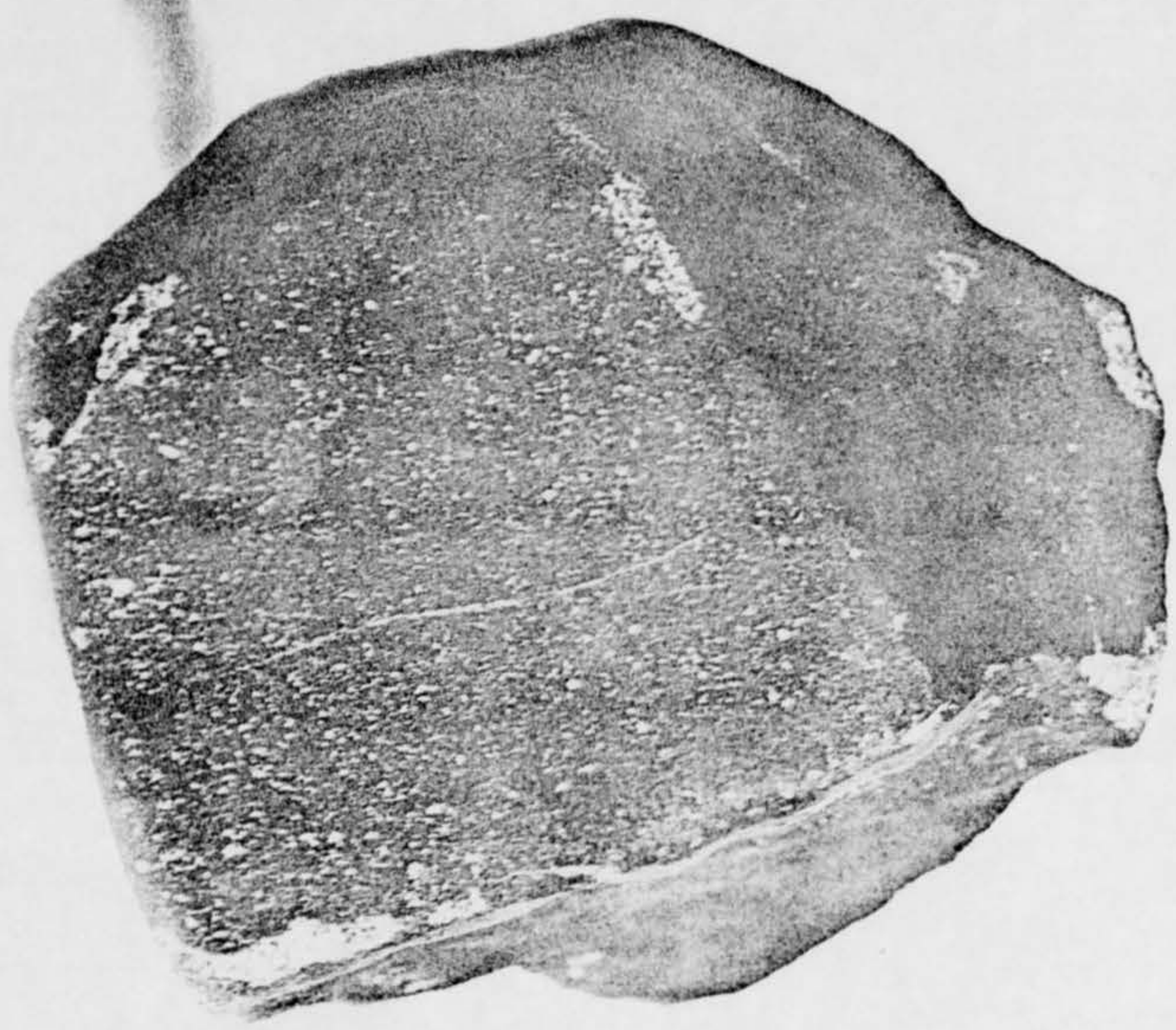
STATEMENT, COMMENT, EXPLANATION, ETC  
NOT MORE THAN 9 INCHES WIDE - CAP?



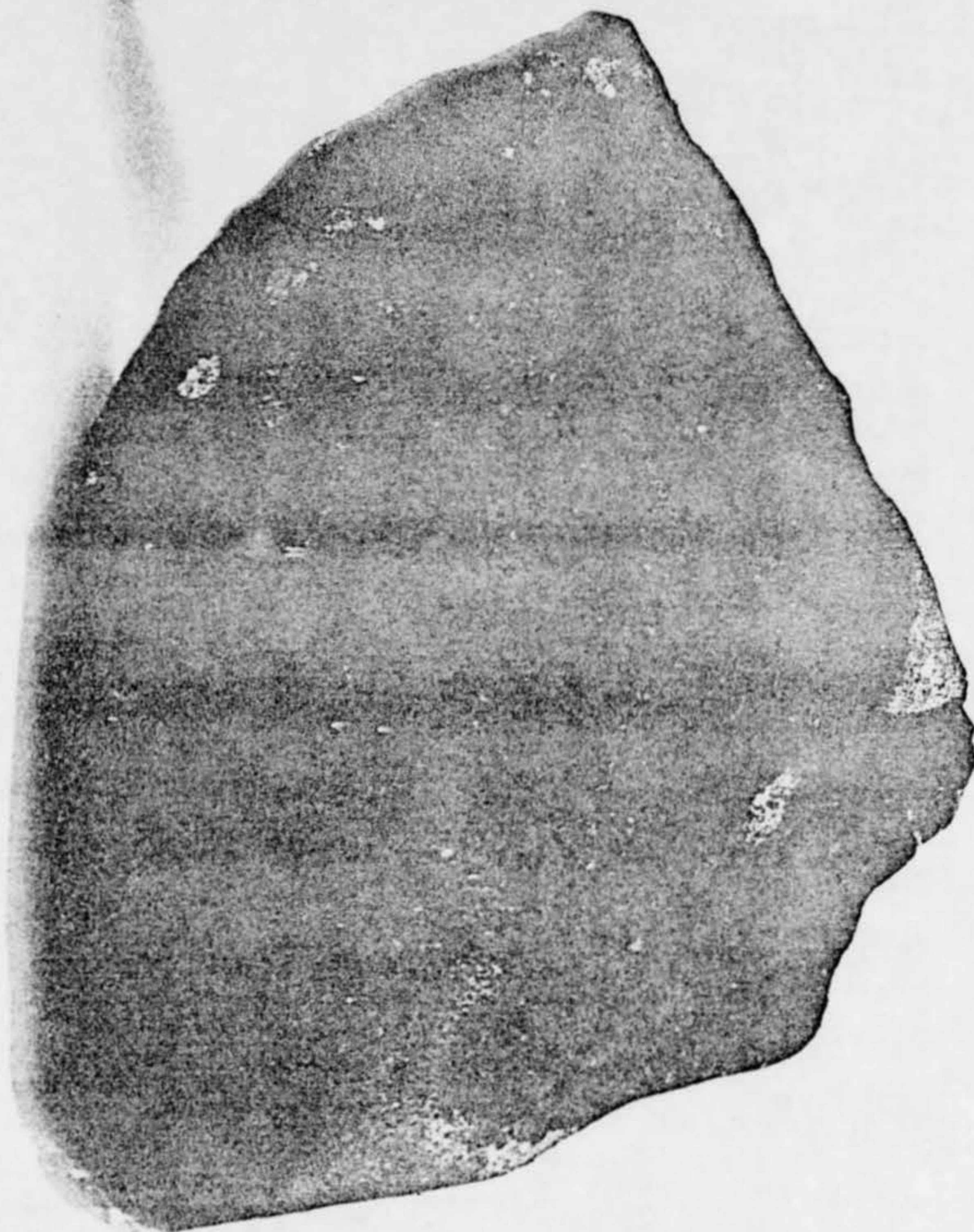
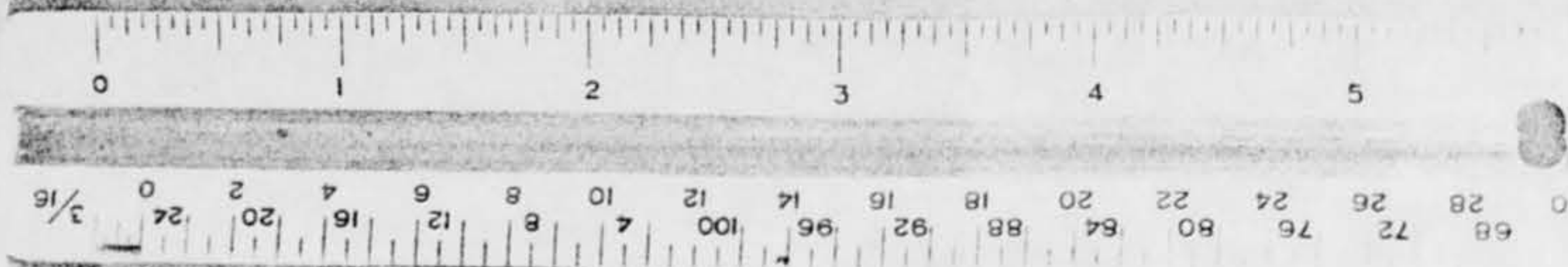
This case contains 5 8"x10"  
negatives and 11 8"x10" photos.



0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100









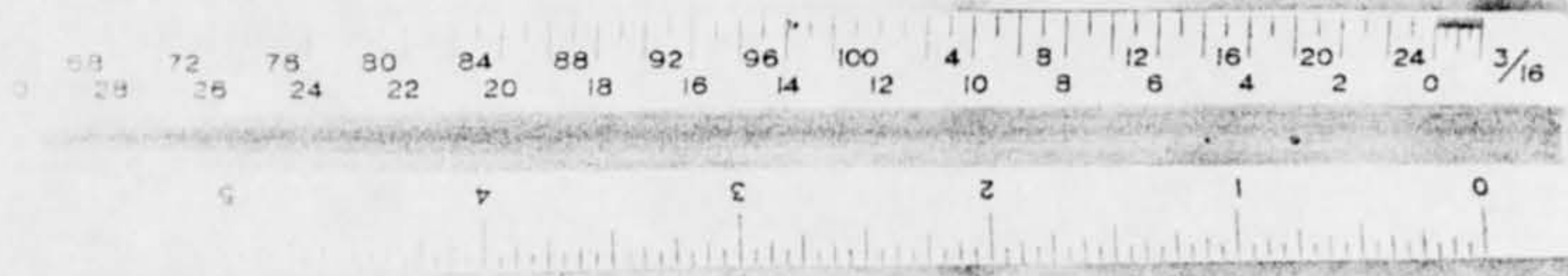
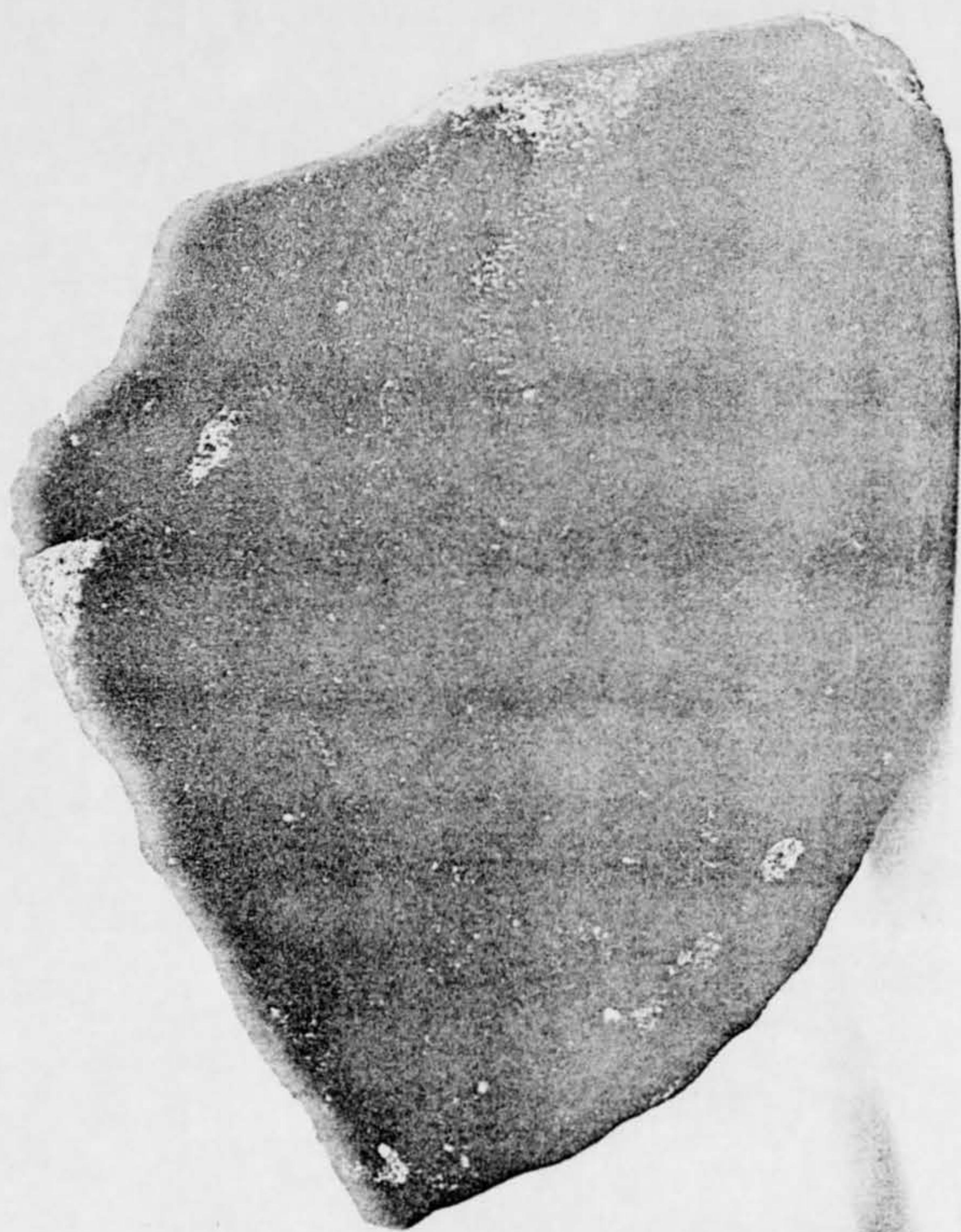


72 76 80 84 88 92 96 100 4 8 12 16 20 24 28  
26 24 22 20 18 16 14 12 10 8 6 4 2 0  
5 4 3 2 1 0















# DISPOSITION FORM

SECURITY CLASSIFICATION (If any)

FILE NO.

SUBJECT

Examination of Meteorite

TO AFCIN-4E4  
ATTN: Capt. Gregory

FROM AFCIN-4E2

DATE 15 July 1957/ COMMENT NO. 1  
AFCIN-4E2c/Naugle/mj  
50193/Bldg. 263D

1. Reference is made to discussions between Captain Gregory relative to the meteorite left in the Air Weapon Materials Branch for examination.

2. The sample in our possession is unquestionably a meteorite, but appears to be at least 100 years old. An examination in this case would have no intelligence value from the standpoint of UFO.

3. Although there has been quite a bit of study on meteorites in connection with heat-transfer as applied to guided missiles, these studies have been made on metal meteorites and not the stony types such as the one submitted. However, aerodynamic flow patterns are being studied on all types of meteorites, and for this reason this sample will be submitted to White Stork.

4. Composition analysis does not appear warranted, since all of the stony meteorites fall into the same category. The Smithsonian Institution, Washington, D. C., can furnish the general analysis of all stony type meteorites.

5. White Stork will also be asked about the monetary value of this meteorite. Dr. H. H. Nininger, American Meteorite Museum, Sedona, Arizona, could make full assessment of the dollar value.

6. A full report will be furnished your office on receipt from White Stork.

*H. E. Martin*  
HOMER E. MARTIN  
Acting Chief  
AFCIN-4E2

*Dr. Villians owned AT-10 from Ballville to examine  
meteorite on 2-1 July 1957. Brief conference held in  
Room 8. Discussed meteorite forwarded to Ballville  
yours day.*

*GTC*



























9089

THIS SIDE OF CARD IS FOR ADDRESS



M/Sgt. Oliver D. Hill.  
Air Technical Intelligence Center  
Wright Patterson AFB, Ohio  
Attention 4-4

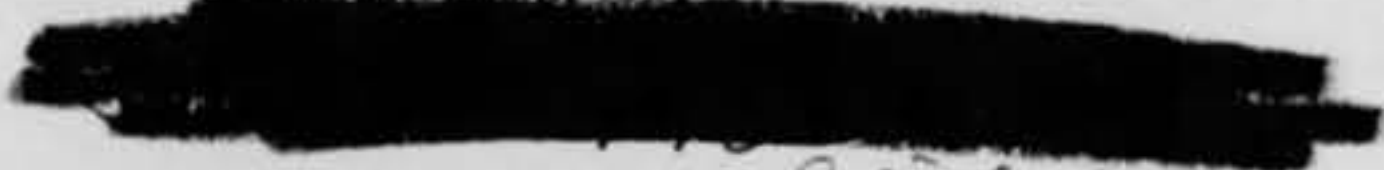


Dear Sir.

Shiloh Ohio  
Aug 19<sup>th</sup>

We have the oats Combined off of that  
field now and you can come any time  
We are anxious to hear what you  
found out from the Meteorite!


County Commission  
Cyrus W. Smith  
Ohio

  
Shiloh  
Ohio



Shiloh O  
Sept 16<sup>th</sup>

Off Lt Oliver D Hill.

I wrote you some time ago  
Concerning the Meteorite and also  
told you the oats was off the field  
and you could inspect the field  
anytime. And would like to know  
what you found out about the  
Meteorite. As I have not heard  
anything since you came after  
it. I would like to have  
you return it as soon as  
possible as they have been  
several interested people here to  
see it and would like to inspect  
it too. Respectfully  Shiloh O



ROUTING	COORDINATION
	AFOIN-4
	AFOIN-4X2bAFCIN-4E4
	Mr. [REDACTED] Commissioners' Office Richland County Mansfield, Ohio
	AFOIN-4X2c
	Dear Mr. [REDACTED]
AFOIN-4X3	
AFOIN-4X4	
AFOIN-4A	
AFOIN-4B	
AFOIN-4C	
AFOIN-4D	
AFOIN-4E	
11/17/57	
AFOIN-4F	
OTHERS	

FILE CLASS: \_\_\_\_\_  
OFFICIAL FILE COPY

OFFICE OF RECORD

18 OCT 1957

4E4/Capt Gregory/ltc  
69216 17 Oct 57

Mr. [REDACTED]  
Commissioners' Office  
Richland County  
Mansfield, Ohio

Dear Mr. [REDACTED]

In response to your letter of 16 September regarding the object which you so kindly made available to the Air Force, please be advised that our examinations have only recently been completed.

The object which, at first glance, appeared to be a meteorite, was submitted to an analysis, the results of which completely discounts the meteorite possibility. The tentative conclusions are that the stone is not a meteorite but most probably a volcanic "bomb" thrown from the throat of an active volcano somewhere to the north and east of its final resting place. It is not improbable that it was transported to the spot of discovery by any of the several glaciers which passed over the volcanic area of the Canadian Shield - Appalachian diastrophic region.

We shall hold the stone pending instructions from you regarding its disposal.

The Air Force wishes to extend its appreciation for your assistance and cooperation in this matter.

Sincerely,

WALLACE W. ELWOOD  
Captain, USAF  
Assistant Adjutant

PERM	
TEMP	
90 DAYS	
INITIAL	



Shiloh Ohio  
Oct 23<sup>rd</sup>

Dear Mr. [REDACTED]:

Was glad to hear from the  
Meteorite and your analysis  
of it, and want to thank you  
for the trouble you have been  
too. And regards to its disposal  
I would like to have it returned  
to my place as soon as possible  
Again I thank you

Sincerely

[REDACTED]

Shiloh  
Ohio



4E4/Dr. H.A. Miley/wm  
70226

5 NOV

COORDINATION
AFOIN-4
AFOIN-4X2b
AFOIN-4E4
Mr. [REDACTED]
Shiloh,
AFOIN-4X2c
Ohio
Dear Mr. [REDACTED]
AFOIN-4X3
AFOIN-4X4
AFOIN-4A
AFOIN-4B
AFOIN-4C
AFOIN-4D
AFOIN-4E
4E4 H.A. Miley + new. 57
AFOIN-4F
OTHERS

Your letter of 23 October 1957 has been received by this Center.

The return of your so-called "meteorite" will be scheduled before long. Contact will be made with you prior to the date of delivery.

Again we thank you for your cooperation.

Sincerely,

WALLACE W. ELWOOD  
Captain, USAF  
Assistant Adjutant

PERM	
TEMP	
90 DAYS	
INITIAL	



\* Reclassified as result of conference between Chief, Air Weapons  
Material Div. (Mr. Naylor) &  
Capt. Gregory, at Oct 51. It  
classified here.

#### EXAMINATION OF A STONE

A large, black stone, reported to be a stony meteorite, was received for examination, particularly from the standpoint of aerodynamic lines of flow.

The stone shows no signs of air-flow lines such as are found on meteorites. The markings visible on the surface of the stone represent material in the bedding planes of a sedimentary rock; <sup>however</sup> this material has a hardness somewhat greater than that of the matrix.

Meteorite flow lines have an appearance and arrangement that are completely different from the markings on the stone in question. On a meteorite, flow lines would not protrude so far from the surface; they would be arranged to radiate from the front and rear stagnation points. A skirt or crest region would be recognized. The front face would be smooth, with protuberances either melted off or with characteristic pits in front of them and behind them. The back face would show a typical mottled appearance due to shallow pitting. In none of these characteristics does the stone in question resemble a meteorite.

The stone is clearly of sedimentary origin. It shows bedding planes with pebbles; at least one of the planes is clearly granitic. It is concluded that the stone is indurated due to some inhomogeneity at the center, possibly a fossil, as is commonly observed in the sandstones found in the eastern part of Ohio. Weathering has removed the softer formation around the stone, leaving pebbles and intrusions between layers of the indurated sandstone, in bas relief. The matrix material is surmised to be a felspathic sandstone.

In composition, the rock does not resemble a meteorite; there is no granite in such bodies, but usually enstatite, olivine, forsterite, etc., are present. Meteorites do not contain pebbles.